

HLA Data and OM Library Plan

17 December 1996

Jack Sheehan, ARL:UT DMSO Data Engineer (703) 998-0660, fax (703) 998-0667 jsheehan@msis.dmso.mil



HLA FOM/SOM Content Standards

Data Standards are the third component of the M&S CTF:

- HLA OMT provides the structure for FOM's and SOM's
- FOM/SOM content standards couple HLA and Data Standards

FOM/SOM Objectives: Content Standards Solutions:

Recognition — Common Semantics and Syntax

Realization — Integration with OM Dev. Tools

Repeatability

Integration with FEDEP

Reuse OMT-DIF, FED-DIF, OM Library, HLA-DD



Plan Overview

Development Activities

- Task 1: DIF's and Libraries
- Task 2: Quick Start Content Analysis
- Task 3: Common Semantics and Syntax Development
- Task 4: HLA Data Dictionary Implementation
- Task 5: OM Development Tool Integration

Prioritized Program Support

- Phase 1: HLA early initiatives
- Phase 2: Additional AMG program requirements
- Phase 3: Broad DoD M&S support



Phase 1: HLA Early Initiatives

Target Consumers

- IEEE 1278.1 Ref FOM
- C2-IPT (e.g JSIMS Testbed/ MRCI)
- HLA T&E Applications

Existing Standards

- DoD Enterprise Model
- DoD Data Dictionary System
- Universal Joint Task List
- CMMS Verb Dictionary

Standards Producers

- Roy Scrudder (lead)
- Earl Williamson
- Sibylle Gonzales
- Peter Valentine
- GRCI, IMC, ARL:UT, AEgis, TASC, JDBE
- DE-TFG

Advice & Consent

- AMG
- SISO
- M&S FDAd



Task 1: DIF's and OM Library

OMT Data Interchange Format

- OMT-DIF version 1.0 complete
- OMDT implementation complete (alpha version)
- DIF updated with OMT evolution

OM Library

- Web application to query/browse on-line FOM/SOM Library
- alpha version accessible for AMG use

FED Data Interchange Format

- RID partitioned into IF_Spec and Federation-Specific components
- FED-DIF work to begin January

Task 2: Quick Start Content Analysis

Objectives

- Determine the feasibility of using CSS from DoD data standards in HLA FOM/SOM's
- Experiment with Tools and Procedures

Approach

- Measure DIS-PDU, MRCI/CTAPS SOM hit-rate
 - in DoD Data Dictionary System
 - in CMMS Verb Dictionary
- Evaluate DART and Verb Filter

Status

DDDS hit-rate (approved elements only, no candidates)

• equivalent: DIS-PDU 37%, MRCI/CTAPS 49%

• similar: DIS-PDU 28%, MRCI/CTAPS 41%

• no-match: DIS-PDU 35%, MRCI/CTAPS 10%

CMMS hit-rate underway but not complete



Task 3: CSS Development

Objectives

- Develop common naming conventions, nomenclature, and enumerations to improve FOM/SOM recognition and understanding
- Employ lexicon from existing standards and operational forces wherever possible

Approach (Phase 1)

- Focus on HLA early initiatives
- Comply with existing standards where suitable
- Derive CSS using data engineering procedures
- Recommend new/revised data standards where appropriate



Task 3: CSS Development (continued)

Status of IEEE 1278.1 Ref FOM collaboration (Phase 1)

- Direct collaboration with IEEE 1278.1 Ref FOM developers
- Ref FOM working group meeting in January
- Report to AMG-17 in February
- Draft for discussion at SIW Conference in March

Schedule for other HLA Early Initiatives (Phase 1)

- collect HLA early initiative requirements Dec-Feb.
- map to existing standards Jan-Feb
- construct CSS Feb-Mar.

Task 4: Data Dictionary Implementation

Objectives

- Capture CSS in an on-line data element Library
- Provide meta-data for search/query, mapping/matching
- Develop mapping/matching tools and procedures

Approach (Phase 1)

- Extend DDDS to handle relationships
- Introduce UJTL and Verb Dictionary attritbutes
- Extend DART, Verb Filter, and ModelMart capabilities
- Define interface with OMDT and OM-Library

Status (Phase 1)

DART and Verb Filter evaluation in progress

Schedule (Phase 1)

- Specify functional requirements Jan-March
- Allocate requirements to HLA-DD, DART, Verb Filter,... Feb-March
- Implement capabilities, Feb-May



Task 5: FOM/SOM Tool Integration

Objectives

Integrate OMDT, OM-Library, and HLA-DD.

Approach (Phase 1)

- Data Interchange Format between tools
- MSRR for physical access and network connectivity

Status (Phase 1)

preliminary discussions with OMDT vendors in progress

Schedule (Phase 1)

- commence when Task 4 capabilities are allocated.
- complete Summer 97.



Proposed Next Steps

- Technical Exchange
 - Share details of Quick Start Analysis for interested parties
- AMG-17
 - Report progress on Content Standards collaboration with IEEE 1278.1 Ref FOM developers